PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 15 APR 2004

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Applicant's 151447/H	or agent's file referend T/KR	FOR FURTHE	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International PCT/NO	I application No. 02/00304	International filing 30.08.2002	g date (day/month/year) . Priority date (day/month/year) 30.08.2002				
Internationa	i Patent Classification	(IPC) or both national classific	cation and IPC				
H04L7/00							
	•						
Applicant							
TELEFO	NAKTIEBOLAGE	T LM ERICSSON et al.					
1. This Auth	international prelin ority and is transm	ninary examination report ha itted to the applicant accord	as been prepared by this International Preliminary Examining ding to Article 36.				
2. This	REPORT consists	of a total of 5 sheets, inclu	uding this cover sheet.				
	heen amended at	nd are the basis for this repo	ES, i.e. sheets of the description, claims and/or drawings which have nort and/or sheets containing rectifications made before this Authority inistrative Instructions under the PCT).				
The	se annexes consist	of a total of sheets.					
3. This	report contains inc	lications relating to the follo	owing items:				
i	☑ Basis of the	opinion					
11	☐ Priority	•					
111	☐ Non-establi	shment of opinion with rega	ard to novelty, inventive step and industrial applicability				
١V		y of invention					
٧	Reasoned s	statement under Rule 66.2(a d explanations supporting s	a)(ii) with regard to novelty, inventive step or industrial applicability; such statement				
VI		uments cited					
VII	☐ Certain defe	ects in the international app	plication				
VIII	☐ Certain obs	ervations, on the internation	nal application				
	•						
Date of sul	omission of the dema	nd	Date of completion of this report				
16.03.20	04		14.04.2004				
	mailing address of the examining authority: European Patent		Authorized Officer				
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NO 02/00304

I.	Basis	of the	report
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	-		•		
	1-9		as originally filed				
	Clai	ms, Numbers	and the second of the second o	11.7.74	r		
	1-11		as originally filed	·			
	Drav	wings, Sheets			•		
	1/4-4	1/4	as originally filed				
2.	With lang	regard to the langua uage in which the into	age, all the elements marke ernational application was f	d above were availabliled, unless otherwise	e or furnished indicated unde	to this Authority in this item.	n the
	The	se elements were ava	ailable or furnished to this A	uthority in the followin	g language:	, which is:	
		the language of a tra	nslation furnished for the p	urposes of the internat	tional search (u	ınder Rule 23.1(b	o)).
		the language of publ	ication of the international a	application (under Rule	e 48.3(b)).	1	
		Rule 55.2 and/or 55.3			•		
3.	With inte	n regård to any nucle rnational preliminary (otide and/or amino acid s examination was carried ou	equence disclosed in It on the basis of the s	the internation equence listing	al application, the	Э .
		contained in the inte	rnational application in writt	en form.	k*	-	
		filed together with th	e international application i	n computer readable f	orm.1 k.		
		furnished subsequer	ntly to this Authority in writte	en form.	** ** _*	•	
		furnished subsequer	ntly to this Authority in comp	outer readable form.	. •		
		in the international a	he subsequently furnished application as filed has beer	i turnisnea.			
		The statement that the listing has been furn	the information recorded in ished.	computer readable for	m is-identical t	o the written sequ	Jence
4.	The	e amendments have r	resulted in the cancellation	of:			
		the description,	pages:				
		the claims,	Nos.:		:. :		
		the drawings,	sheets:		·. 4		

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
•	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-11

No: Claims

No:

Inventive step (IS)

Yes: Claims

Claims

1-11

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

V- Reasoned Statement

- The following documents are cited: 1.
 - D1: WO 98 25367 A (DSC COMMUNICATIONS AS ;NIELSEN ANDERS BOEJE (DK)) 11 June 1998 (1998-06-11)
 - D2: DATABASE WPI Section EI, Week 200047 Derwent Publications Ltd., London, GB; Class U23, AN 2000-519766 XP002237855 & JP 2000 201068 A (NEC CORP), 18 July 2000 (2000-07-18)
- The subject-matter of claim 1 of the present invention is concerned with a method . 2. in a telecommunication or data network of reducing phase jumps in a frame synchronisation signal when switching from a first original reference signal to a second reference signal. As the phase of the two clocks may be different, switching from one to the other may cause a phase jump. D1 deals with this. problem by using a digital error signal generated in response to the difference in phases of the two clocks. This phase difference sinal is transferred to a central numerically controlled oscillator onto which the system clock is locked. In D2, a reference clock is divided by two and if necessary use to invert the other reference clock. In claim 1 of the present application, a different approach is taken. The two incoming reference clocks are multiplied by a factor n to create clocks of a higher frequency. One of these higher frequency clocks is then selected . Following selection, the selected higher frequency clock is then divided by n again, resulting in a lower frequency clock. If the selection takes place within a lower frequency clock period, the resulting clock phase jump is only one nth of the lower frequency clock period or less. Thus the result is achieved with minimal circuitry. The features of claim 1 are not found in either of the documents cited. Thus claim 1 involves an inventive step and meets the requirements of Articles 33(2) and (3) PCT.
- The subject-matter of independent claim 6 is essentially the same as that of claim 3. 1, but expressed in terms of apparatus features. Thus for the same reasons outlined above, claim 6 also meets the requirements of Articles 33(2) and (3) PCT.
- The subject-matter of dependent claims 2 to 5 and 7 to 11 includes features which 4. further restrict the scope of claims 1 and 6 respectively. As a result, these claims also meet the requirements of Articles 33(2) and (3) PCT.

- **EXAMINATION REPORT SEPARATE SHEET**
- The following deficiencies are found in the application. If applicable they should be 5. remedied when entering a regional phase (e.g. application for a European patent):
- The claims do not meet the requirements of Rule 6.2(b) PCT in that they do not a). contain reference signs.
- The independent claims do not meet the requirements of Rule 6.3(b) PCT in that b) they are not divided into the two-part form.
- The most relevant of the documents cited in the International Search Report , c). should be referenced and briefly discussed in the description, Rule 5.1(a)(ii), PCT.